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AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior listings and versions:

- 1. (canceled).
- 2. (currently amended): An isolated protein <u>comprising a polypeptide exhibiting at least 70% sequence identity to eonsisting of</u> the amino acid sequence of SEQ ID NO:1, with <u>wherein the protein comprises</u> one or more mutations that reduce or eliminate ADP-ribosylating activity of the protein, wherein the one or more mutations are made at least one of the following amino acid-residues of SEQ ID NO:1: 504, 506, 537, 539, 548, 564, 567, 570, 573, 574, and 576.
- (original): The protein of claim 2, wherein the amino acid sequence contains between one and twenty mutations.
 - 4. (canceled).
- (previously presented): The protein of claim 2, wherein the mutation(s) are independently substitutions, insertions, and/or deletions.
- 6. (original): The protein of claim 5, wherein the mutation(s) include single amino acid substitutions.
 - 7 to 11. (canceled).
- 12. (currently amended): A protein of claim <u>1</u> 9, wherein said protein is associated with at least one molecule of NAD, nicotinamide and/or ribosyl- ADP.
 - 13. (previously presented): The protein of claim 2, for use as an adjuvant.

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14. (original): The protein of claim 13, for use as a mucosal adjuvant.

15. (previously presented): A method of raising an immune response in an animal, the

method comprising the step of administering a protein according to claim 2 to said animal.

16. (previously presented): An immunogenic composition comprising the protein of

claim 2 in admixture with an antigen.

17. (withdrawn): An antibody which binds to the protein of claim 2.

18. (withdrawn): An isolated nucleic acid encoding the protein of claim 2.

19. (withdrawn): An isolated nucleic acid comprising the nucleotide sequence recited in

SEQ ID NO:2.

20. (withdrawn): An isolated nucleic acid comprising a fragment of 10 or more

nucleotides from the nucleic acid of claim 18.

21. (withdrawn): A vector comprising a nucleic acid sequence of the nucleic acid of

claim 18.

22. (withdrawn): A host cell transformed with the vector of claim 21.

23. (withdrawn): A composition comprising the nucleic acid of claim 18.

24. (withdrawn): A composition comprising the antibody of claim 17.

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- 25. (withdrawn): A method of treating or preventing bacterial infection, the method comprising administering a protein according to claim 2 or a nucleic acid encoding the protein to a subject.
- $26. \ (withdrawn): \ The method of claim \ 25, wherein the bacterial infection is caused by \\ Listeria monocytogenes.$
 - 27. (withdrawn): The method of claim 26, wherein the bacterial infection is listeriosis.
 - 28. (canceled).
- (new) The isolated protein of claim 2, wherein the mutations are made at least one of the following amino acid residues of SEQ ID NO:1: 504, 506, 537, 539, 548, 564, 567, 570, 573, 574, and 576